

FIG. 1

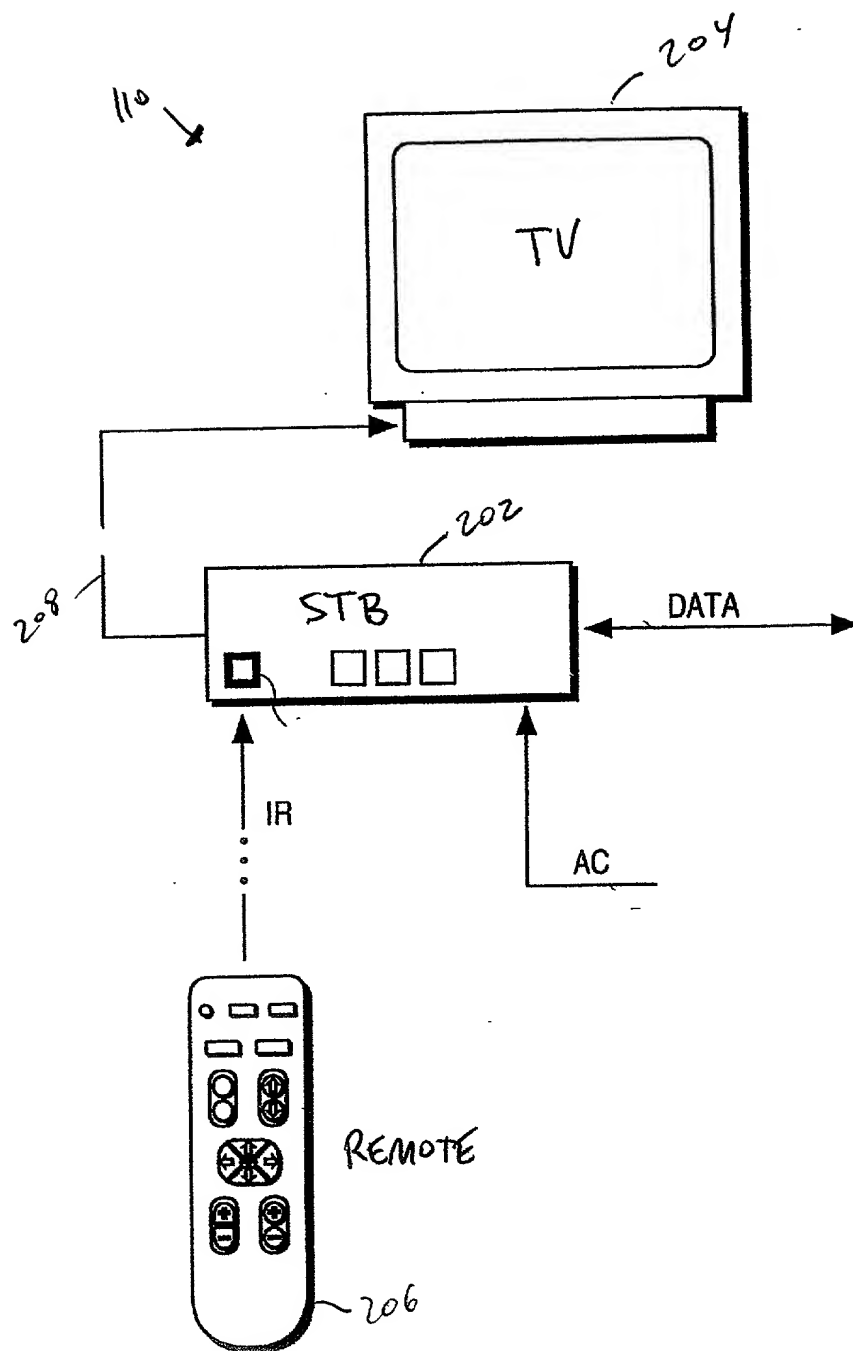


FIG. 2

Patented Feb 25, 1992

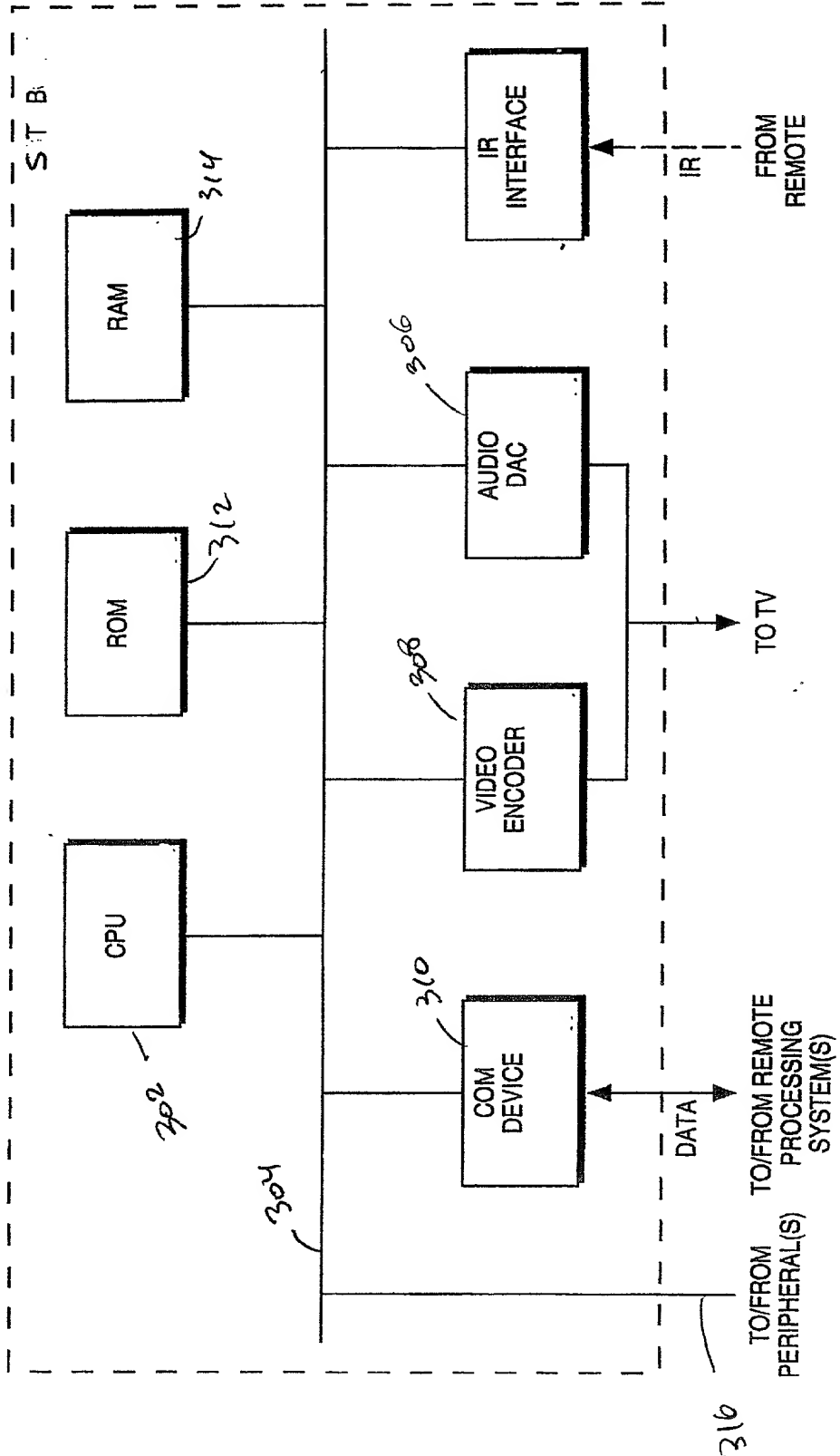


FIG. 3

FIG. 4

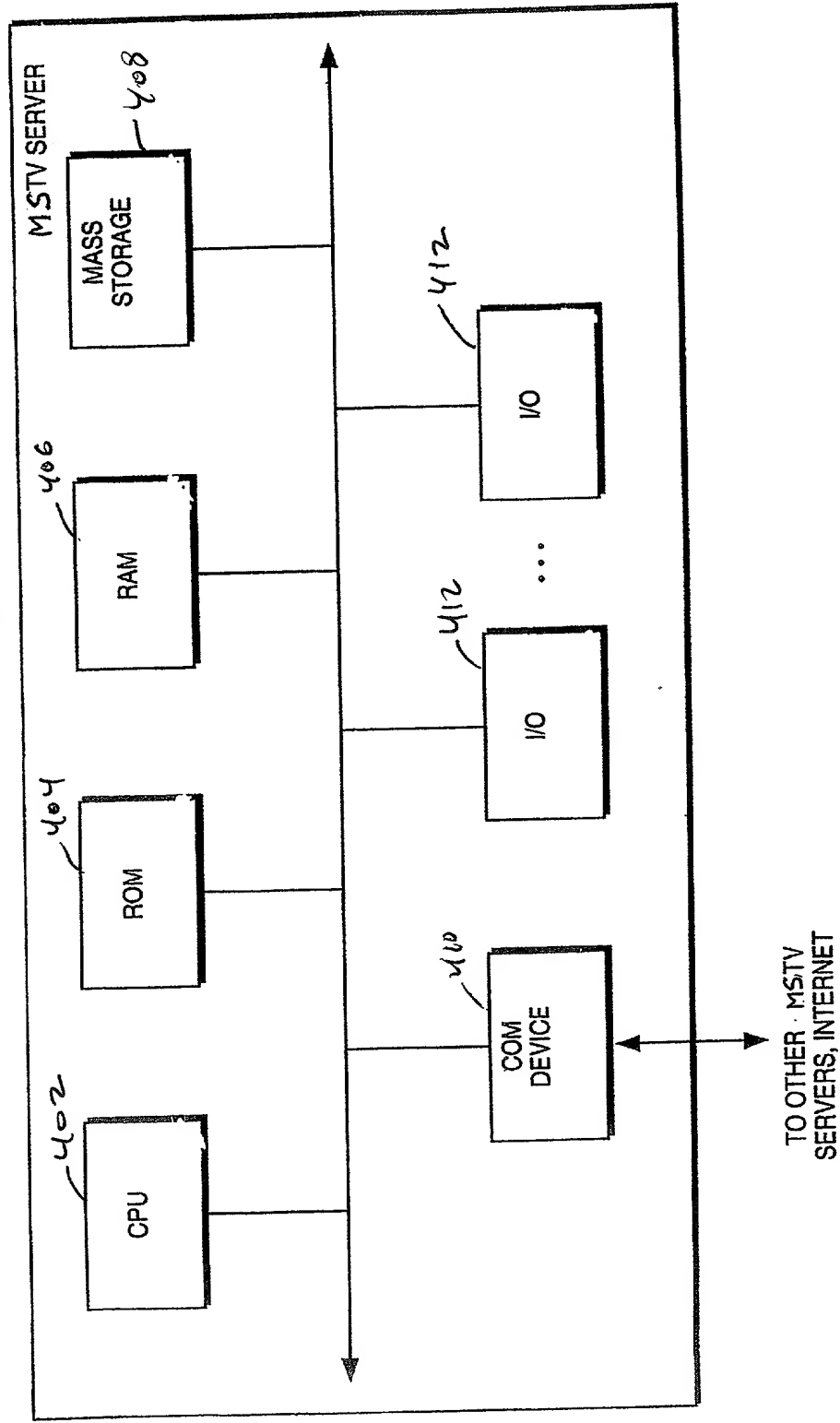


FIG. 4

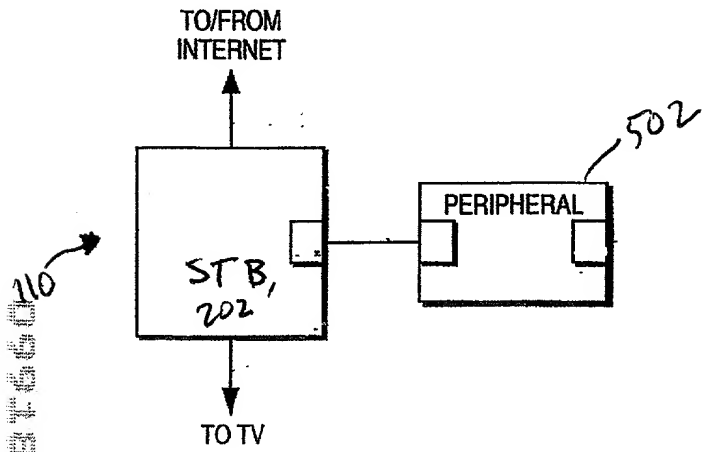


FIG. 5

602

Detect Device Event, 604



Transmit Request to Obtain
Software or Data, 606



Select Software or Data
From First Source, 608



Receive Selected Software
Or Data From First Source, 610

FIG. 6A

612

Detect Device Event, 614



Transmit Request to
Obtain Software or Data, 616



Select Software or Data
For Peripheral Device, 618



Receive Software or Data
From First Source, 620

FIG. 6B

622

Detect Device Event, 624



Execute Corresponding Function, 625

FIG. 6C

FIG. 6C

626

Receive Peripheral Device Signal, 628



Process Signal to Generate
Intermediary Signal, 630



Transmit Intermediary Signal
To Digital Processing System, 632

FIG. 6D

634

Receive peripheral device signal, 636



Process peripheral device signal, 638



Execute corresponding function, 640



Open Communications Channel Between
Client and Data/Software Source, 642

FIG. 6E

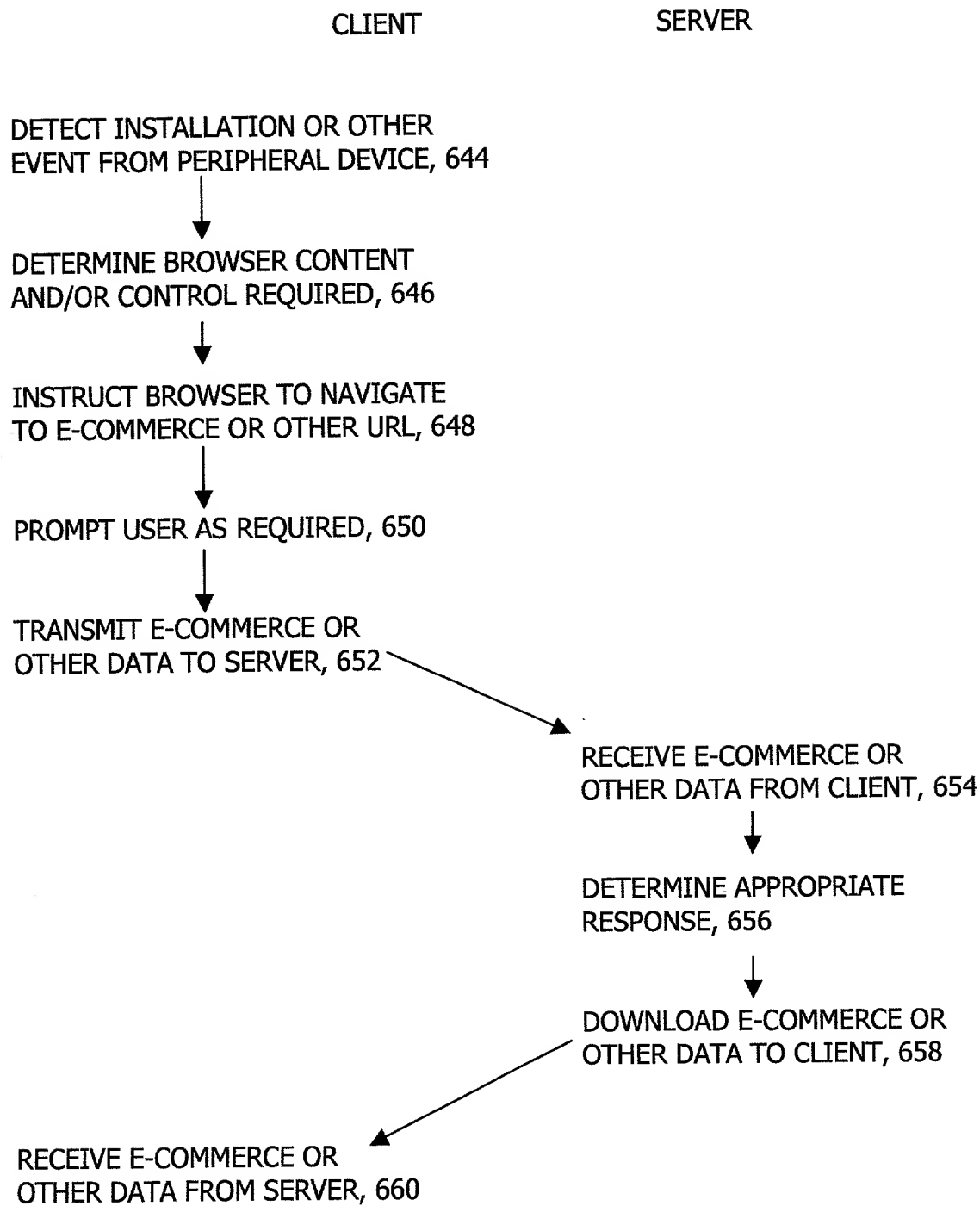


FIG. 6F

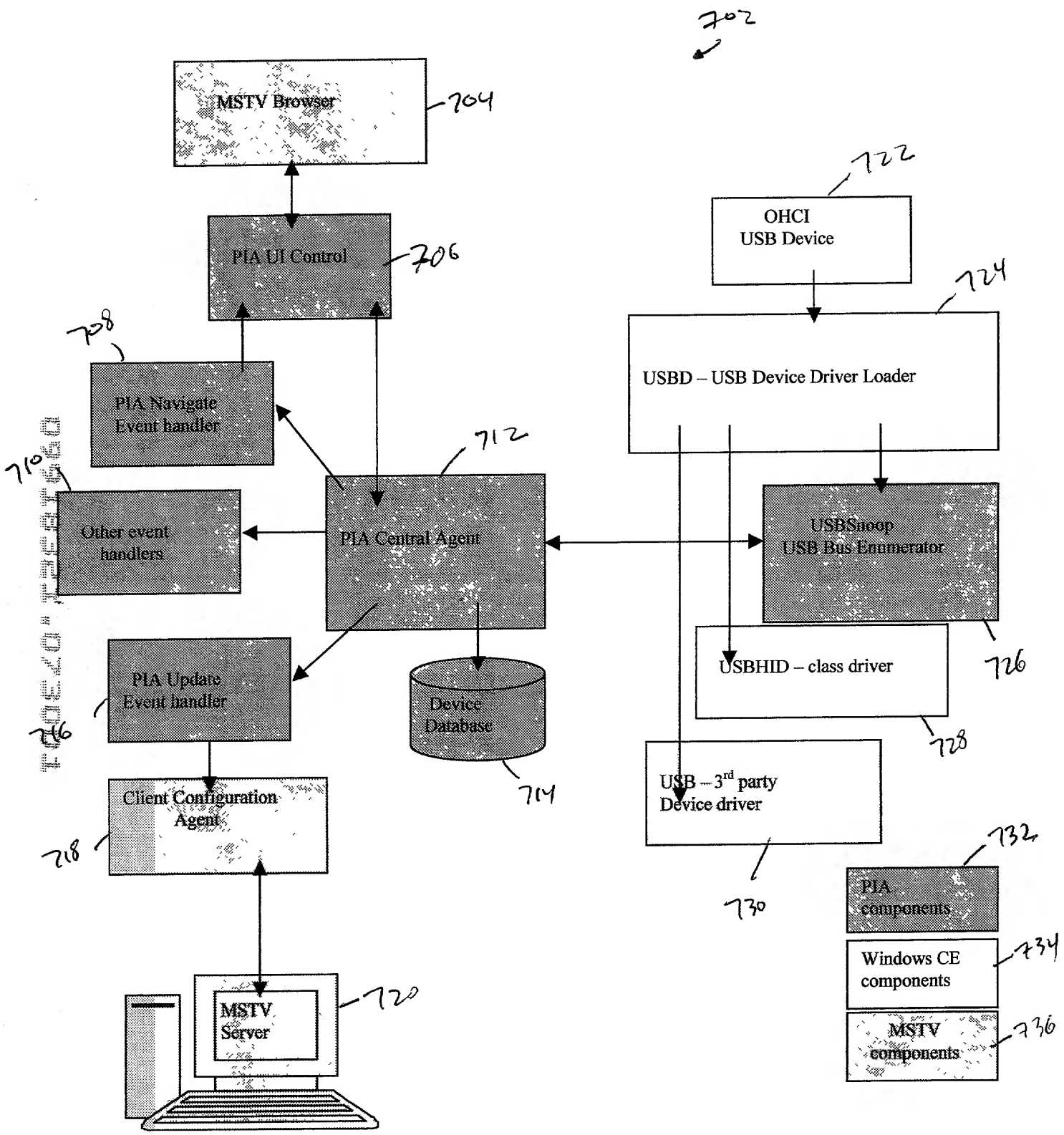
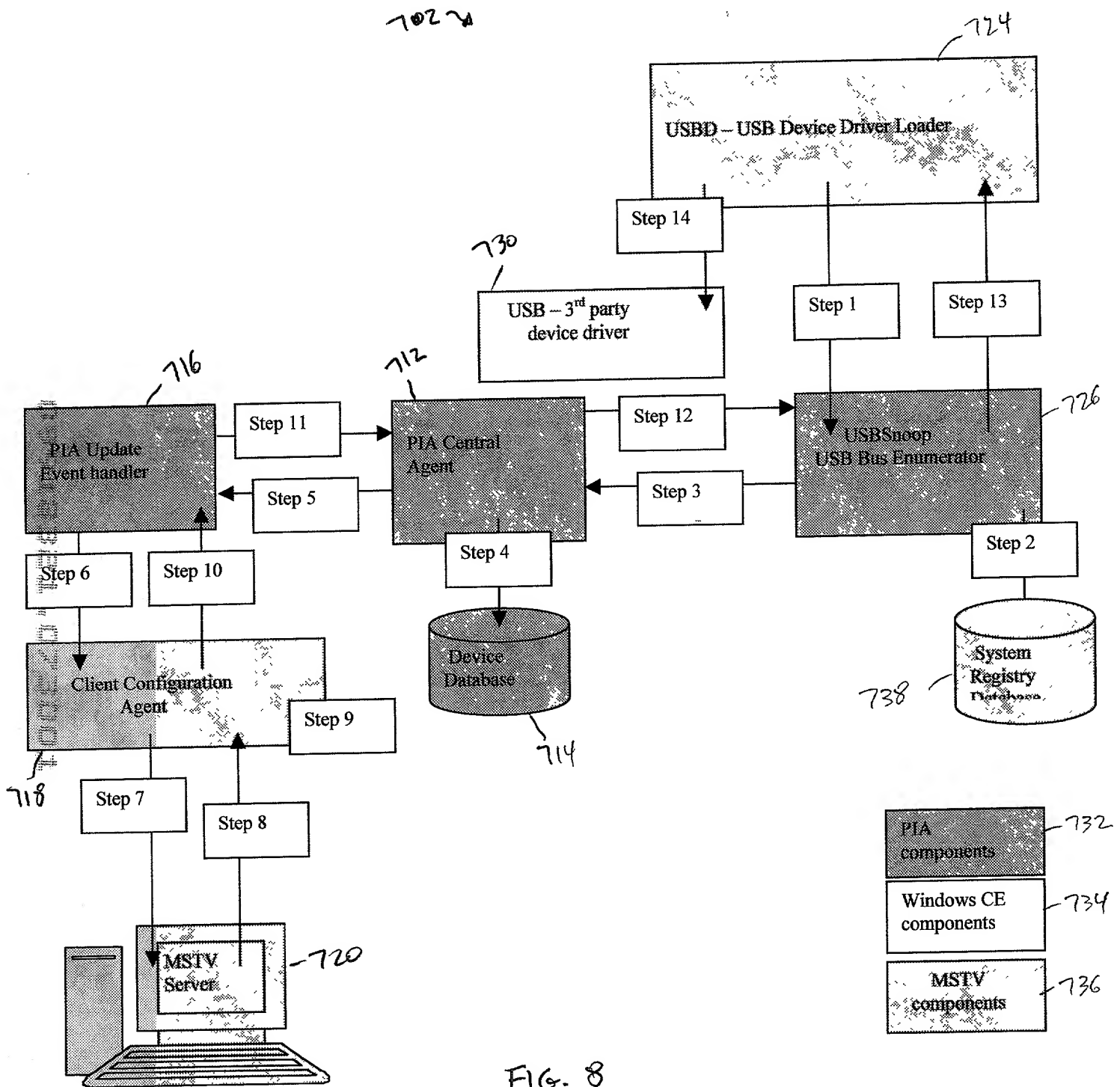


FIG. 7



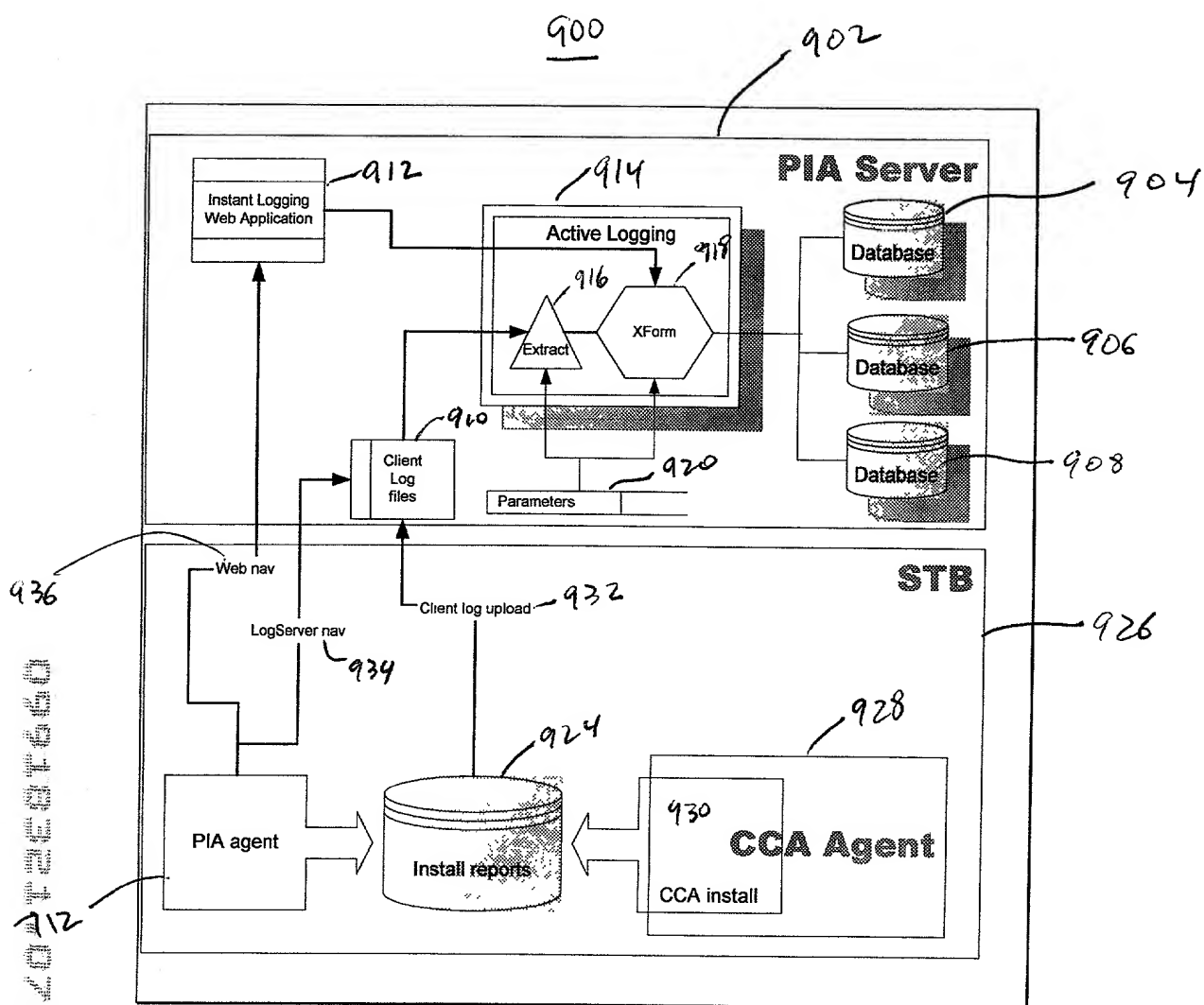


FIG. 9

Non-Interactive:

Step 1: *O* adds entry to handle *d*'s insertion into *s* into *PIADevice.xml*, and updates *CCS*



Step 2: *O* prepares Extractor XSL Stylesheet, Defines How *STB ID* Is Transformed Into User ID, Adds Other Details *W* Needs to Complete Transaction



Step 3: Client Assembles Data and Message Structure, Sends Message



Step 4: *S* Receives Message and Creates User Record



Step 5: *S* forwards record to *E*; *E* enters transaction in Its Processor

Interactive:

Step 1: *O* adds entry to handle *d*'s insertion into *s* into *PIADevice.xml* and updates *CCS*



Step 2: *O* prepares Transformer XSL Stylesheet (w/ URL of Website where appropriate)



Step 3: *PIADEVICE.xml* Contains, for *d*'s Activation on *s*, *NAVIGATE* Directive to Direct Packaging of Arguments; Request in HTTP to Web Server



Step 4: Web Server Creates Customer Record, Uses XSL Transformation Stylesheet to Prepare Record, and Where Appropriate, *w* Connects Interactive Application on *e* to *s*, Sending *e* the Initial Data it Transformed

FIG. 10

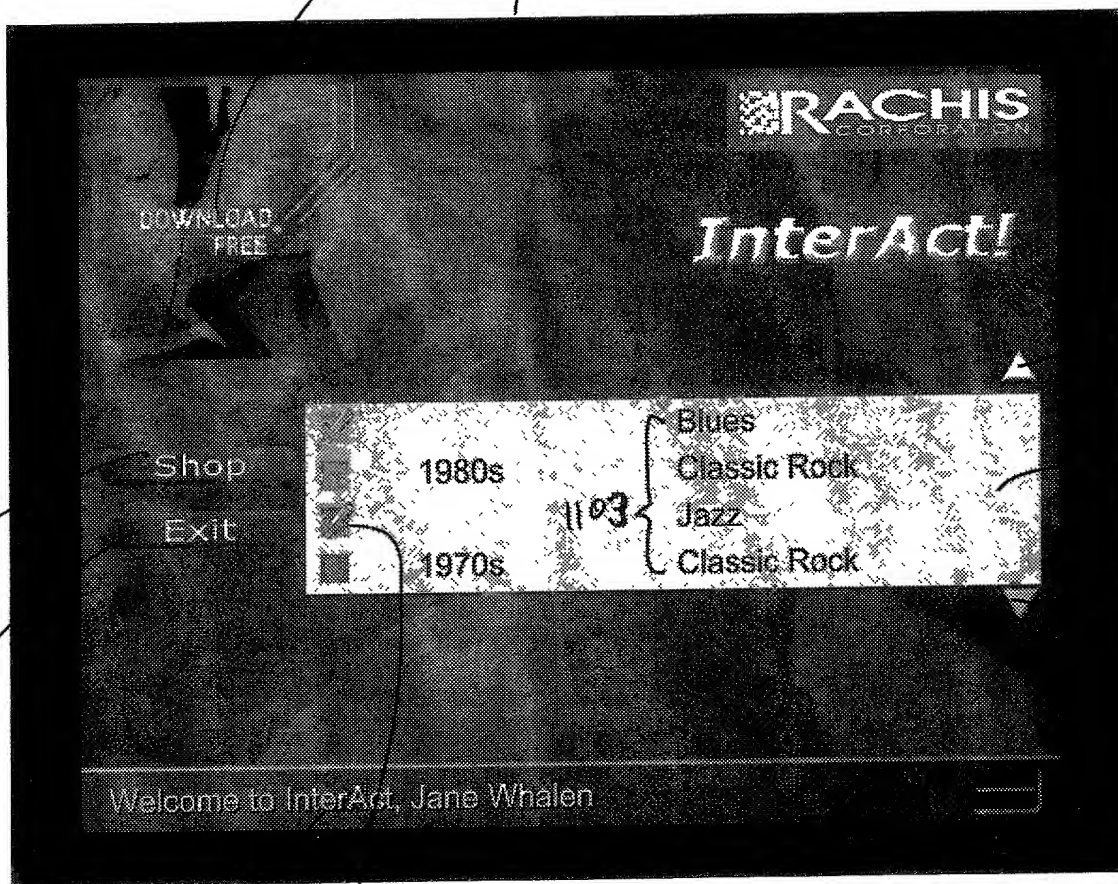


FIG. 11

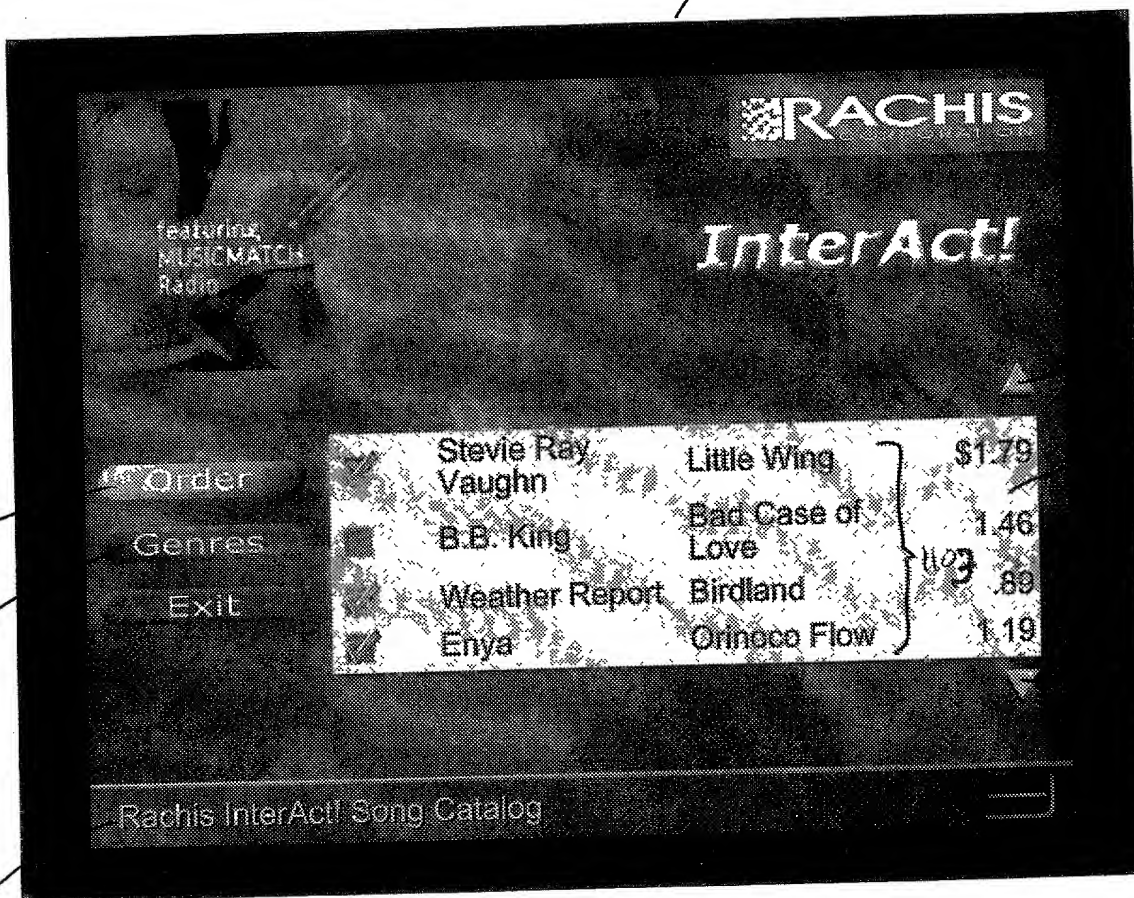


FIG. 12

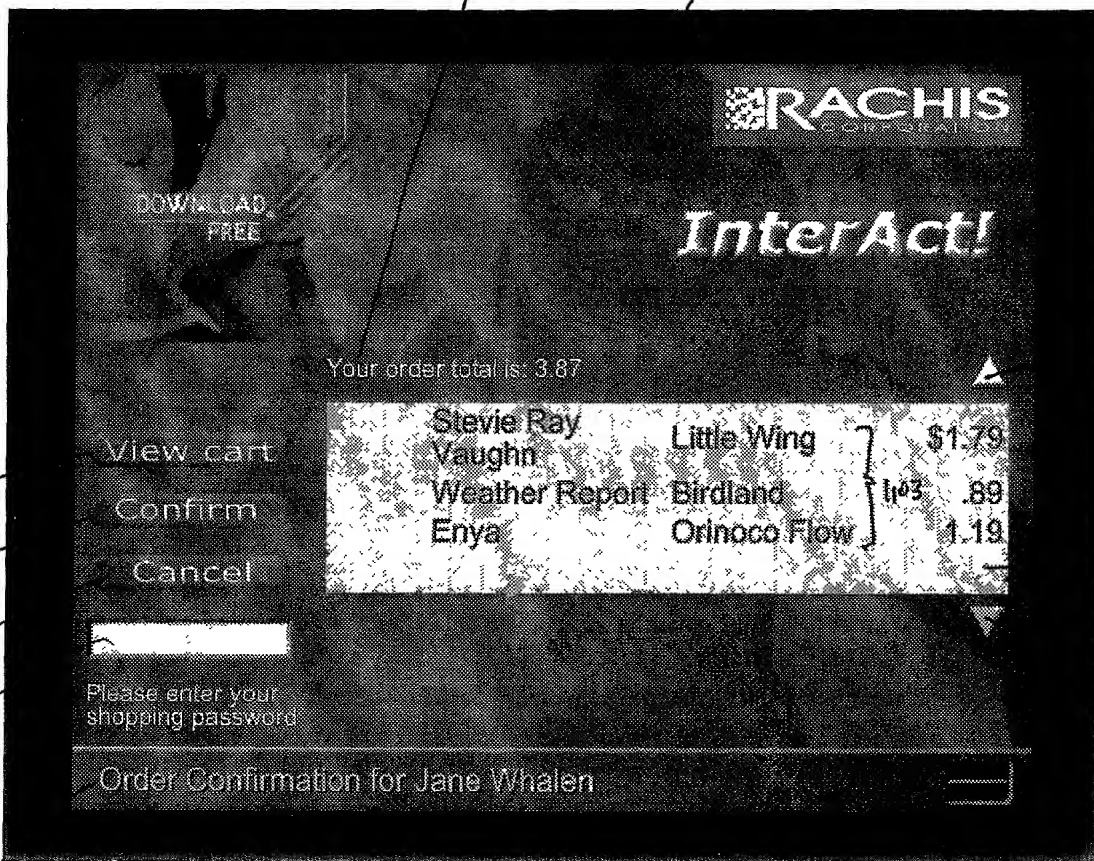


FIG. 13

FIG. 14

1102

1104

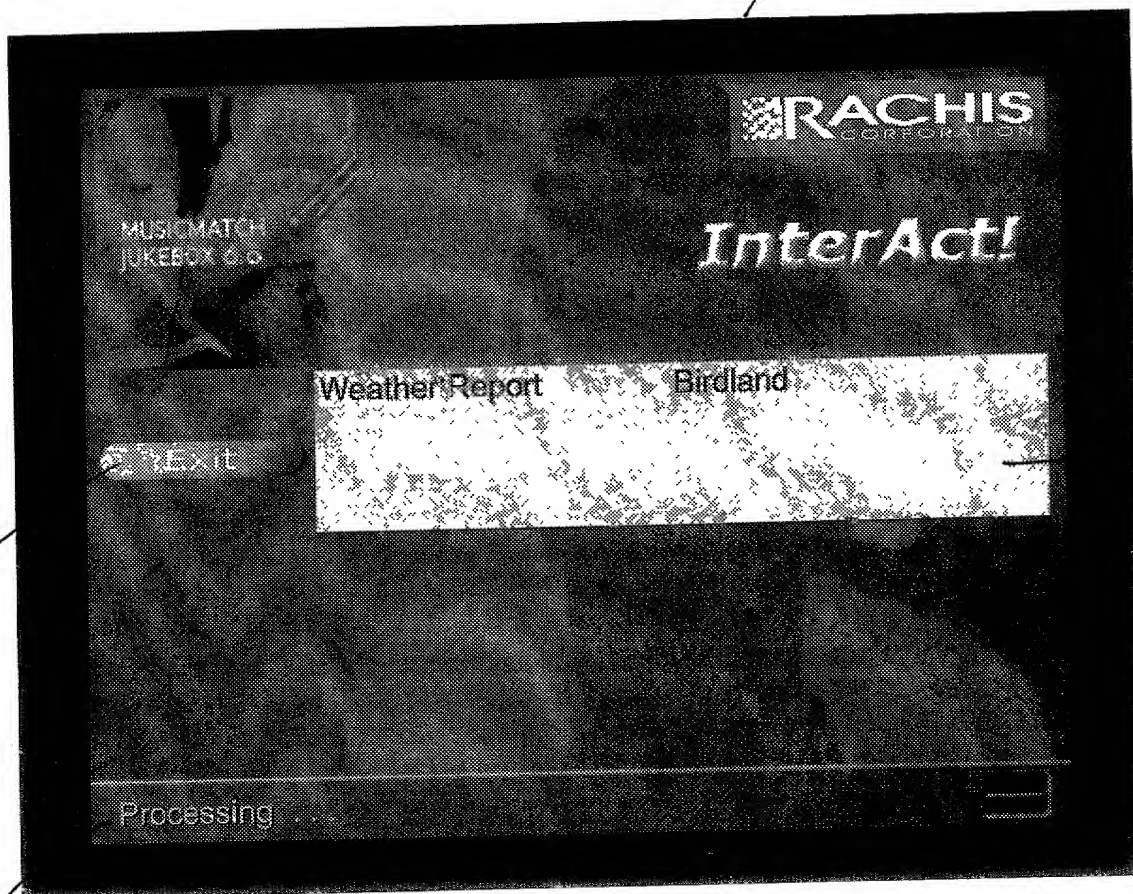


FIG. 14

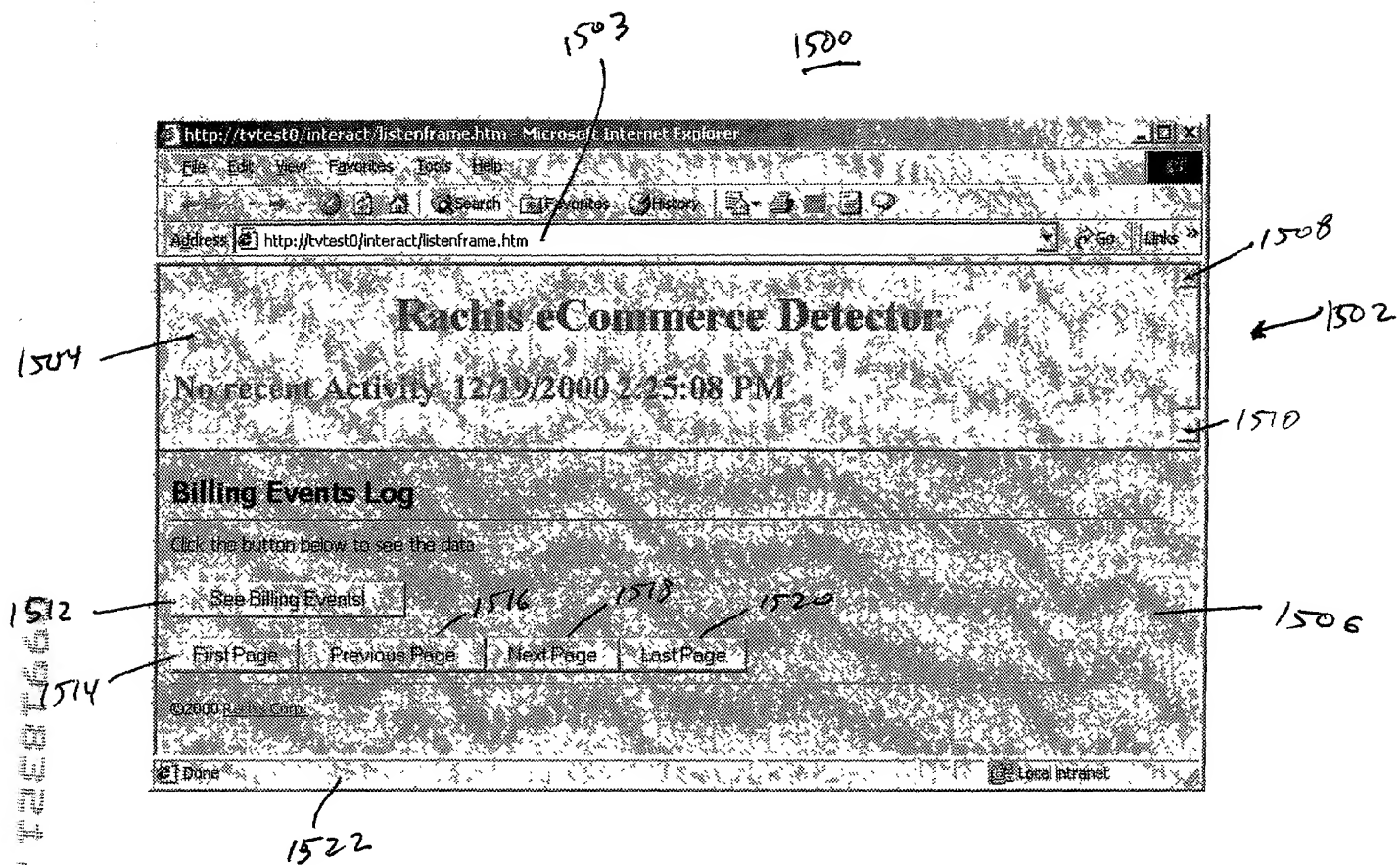


FIG. 15

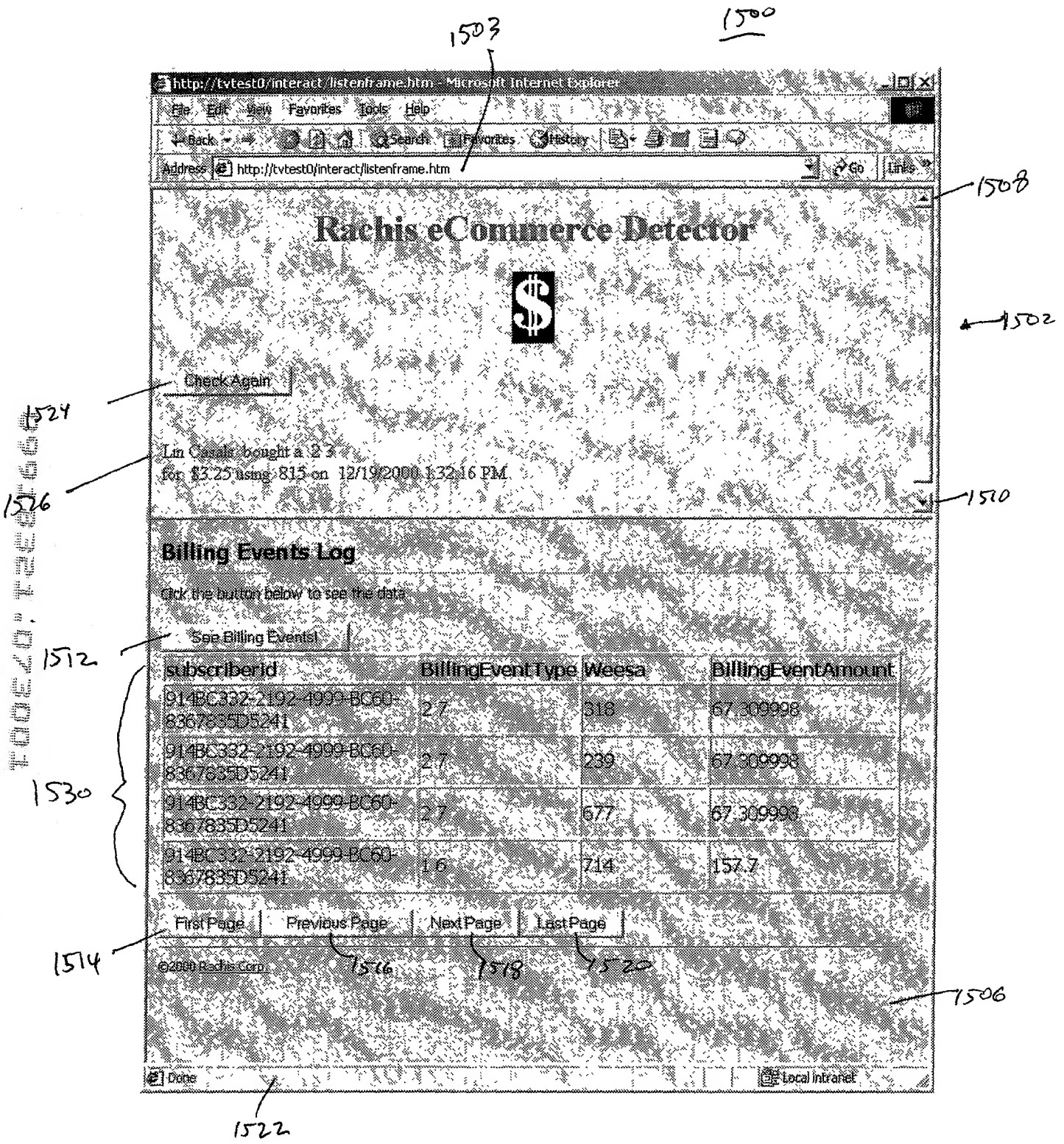


FIG-16